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THE

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PREFACE.

For years past teachers have been demanding a spelling-book suitable for children.

This little work has been prepared by one who, in common with his fellow-teachers, has pitied children compelled to memorize long lists of words, many of which they rarely use in after life, and to which they can seldom attach any meaning.

We claim for this book a plan simple and methodical. Lessons are first given which illustrate the vowel sounds. Then, beginning at home, a list of words is given suggestive of a detailed description of well-known objects. From home and its surroundings the child is led by easy steps to other familiar places of interest.

As his range of vision is extended his vocabulary increases, and thus his language is built up. He needs to know how to spell these words, and he should be taught to weave them into sentences as well as to spell them, for the words are not his until he can so use them.

Much care has been taken in the preparation of the illustrations that accompany these lessons. The ingenious teacher will find them a great help in conducting the spelling exercise. In all cases the picture should form an introduction to the lesson. The children should find the objects, name them, describe their qualities and spell the words thus used.

Believing that this book will accomplish a good work in the hands of judicious teachers, we submit it to them, and ask that it be tried in the crucible of the school-room.

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E-P 6

SUGGESTIONS TO TEACHERS.

NEVER allow your children to pass over a word whose meaning they do not understand. *Be thorough.*

Lead the children to put the words into sentences as they are spelled—not careless sentences, but such as mean something. This will be a great help to them in acquiring the rapid use of language. Study the wants of your pupils, and adapt the exercise to their advancement.

HOW TO CONDUCT SPELLING CLASSES.

The children come into the class with their spelling-books open at the lesson. The teacher calls upon one of the children to find something in the picture. The child finds, perhaps, the picture of a man, and the question is then asked, "How many see the picture of a man?" All see it. The teacher then calls upon another child to point out some other object, and continues as before till the lesson is finished. Proceed in a similar method to obtain the actions or qualities of the objects represented.

It would be a good plan to have the more simple objects sketched upon the board. Encourage the children to do this. Educate the hand. They can very easily represent such common objects as a hat, broom, box, book, man, etc. Let them sketch as much as possible, and have the words printed on the board after the children have used them.

After the picture has been examined and the names of the objects have been discussed, a few minutes' study will be sufficient to fix the spelling in the minds of the children.

To review the lesson, the children bring their slates into the class. The teacher pronounces the words, and the children print or write them on their slates. At the close of this part of the exercise the children are directed to exchange slates. They are now ready to spell from the slates. A child rises, and spells the first word just as it is written on the slate he holds. The

children decide as to its correctness. If correct, it is not marked or checked; if incorrect, it is marked. The others check the words on their slates if incorrect, sum up misspelled words and report to the teacher at roll-call.

Again, after the allotted time for preparation the children assemble in the class-room. The class is divided into groups of three. The first three rise. Number one spells the word, number two sketches the object named by it on the board if able to do so (if not, gives a sentence containing the word), whilst number three prints the word on the board. As the first three finish the second three rise, proceed in a similar manner, and so on for the whole class.

Noiseless Review.—After studying, the children pass to the board in order, and each prints any word remembered until the lesson is all on the board; then each child rises in order, giving a sentence for the word he placed on the board.

To review the lesson in another manner, allow the children to choose sides and pronounce from memory the words studied or spell them as the teacher dictates.

Another method of conducting an exercise in spelling is as follows: The teacher holds up an object or has a picture of it placed on the board, asks for the name of the object, has one or more of the pupils write or print its name on the board, asks for the sound of each letter, then for the name of each letter, and lastly asks for the name of the object.

On the next page will be found an object lesson on one of the illustrations, to show the plan of drawing out the ideas of the children by means of the pictures.

Compound words are distinguished by the use of the hyphen.

OBJECT LESSON.

See Picture on Page 28.

Teacher. Point to something which you see in the picture, and tell me what it is.

Child. I see a man (pointing to one in the picture).

Teach. What other name can you give for him besides man?

Ch. Gentleman.

Teach. Point to something else and give its name.

Ch. Baby.

Teach. By what other name do we sometimes call babies?

Ch. Infants.

Teach. Name something else which you see in the picture.

Ch. Another man.

Teach. What kind of a man is he?

Ch. An old man.

Teach. Name something else.

Ch. A boy and a girl.

Teach. Or in one word you can say that you see some—

Ch. Children.

Teach. What else can you see?

Ch. Another man.

Teach. By whom is he standing?

Ch. By the children.

Teach. I see some one else. Which of you can tell me who it is?

Ch. A woman.

Teach. Or, a—

Ch. Lady.

Teach. Who sees some one else?

Ch. I see two more women.

Teach. Each one tell me something else you see.

Ch. Basket, spring-balance, table, chair, etc.

Teach. Look at the old man and tell me what he has.

Ch. He has the baby in a basket.

Teach. Where is the basket?

Ch. On the spring-balance.

Teach. What do you think the old man is going to do with the baby?

Ch. Weigh it.

Teach. Look at him. How do you think he feels toward the baby?

Ch. He loves it.

Teach. What relation do you think he is to the baby?

Ch. Grandfather.

Teach. Yes; he is the baby's grandfather. But there is somebody I don't see in the picture; who do you think it is?

Ch. The baby's grandmother.

Teach. What is the baby to its grandfather and grandmother?

Ch. Their grandchild.

Teach. Let us look at that man by the grandfather. How does he look?

Ch. Pleasant.

Teach. What relation do you think he is to the baby?

Ch. Its father.

Teach. What is the father doing?

Ch. He is pointing to the baby in the basket.

Teach. With what?

Ch. His hand.

Teach. What relation do you think the lady next to him is to the baby?

Ch. Its mother.

Teach. If she is the baby's mother, what is she to the baby's father?

Ch. His wife.

Teach. And he is her—

Ch. Husband.

Teach. What relation do you think the other lady is to the one in the chair?

Ch. Her sister.

Teach. What relation is she, then, to the baby?

Ch. Its aunt.

Teach. What relation do you think that man is to the baby's father?

Ch. His brother.

Teach. Then he is what relation to the baby?

Ch. Uncle.

Teach. You called the little boy and girl his children. What would they be to the baby?

Ch. Its cousins.

Teach. What is the other woman doing?

Ch. Taking the dishes from the table.

Teach. What do you think she is in this family?

Ch. Servant.

Teach. Name the part of the body with which you hear what I am saying.

Ch. Ear.

Teach. Your ear is on what part of your body?

Ch. Head.

Teach. What else is on your head?

Ch. Hair.

Teach. Anything else?

Ch. Nose, chin, face, etc.

A	B	C	D
E	F	G	H
I	J	K	L
M	N	O	P
Q	R	S	T
U	V	W	X
	Y	Z	

a	b	c	d
e	f	g	h
i	j	k	l
m	n	o	p
q	r	s	t
u	v	w	x
	y	z	

SCRIPT.

A B C D E F G

H I J K L M N

O P Q R S T U

V W X Y Z

a b c d e f g h i j k l

m n o p q r s t

u v w x y z

THE NEW

AMERICAN PRIMARY SPELLER.

LESSON I.

am	if	on	me
an	it	of	he
at	in	ox	we

LESSON II.

to	go	so	by
do	my	lo	or
be	us	no	up

LESSON III.

man	cat	lad	cap
can	hat	pad	map
pan	rat	mad	bag

LESSON IV.

net	hen	keg	bed
pet	pen	leg	elk
met	men	peg	end

LESSON V.

pig	lid	bin	lip
fig	did	fin	bib
gig	hid	tin	rib

LESSON VI.

cob	pod	hog	fop
fob	rod	dog	top
rob	hod	log	lot

LESSON VII.

bud	bug	nut	fun
mug	jug	hut	mud
gun	sun	rut	sum

LESSON VIII.

gay	lay	ray	age
day	may	way	ape
hay	say	jay	ale

LESSON IX.

the	die	foe	old
see	pie	hoe	own
bee	tie	row	oar

LESSON X.

dew	new	boy	owl
few	pew	toy	our
mew	due	joy	out

LESSON XI.

paw	bar	ark	son
saw	car	arm	ton
law	jar	art	won

LESSON XII.

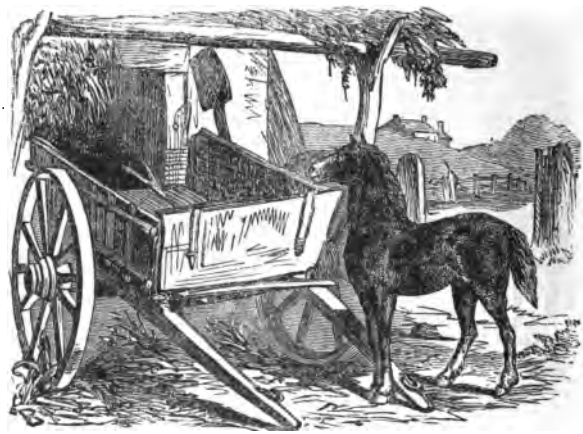
date	base	pane	face
gate	cape	cane	race
game	tape	lane	pace

LESSON XIII.

beer	peel	seed	meek
deep	heel	weed	deed
weep	feel	feed	need

LESSON XIV.

kite	vice	pine	ride
mice	file	line	fire
rice	pile	pike	wire



LESSON XV.

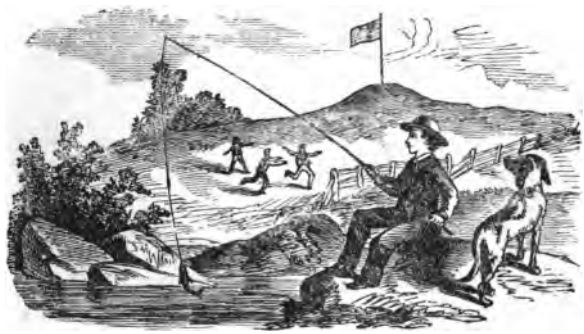
bolt	mole	rose	cove
colt	pole	tone	wove
bone	nose	hole	note

LESSON XVI.

mute	cube	pure	blew
cute	tube	cure	flew
tune	duke	mule	stew

LESSON XVII.

harp	yard	darn	cart
farm	lard	yarn	part
hard	card	barn	tart



LESSON XVIII.

mound	hound	round	count
ground	sound	bound	mount
sprout	stout	wound	south
trout	shout	found	mouth

LESSON XIX.

toil	join	noise	moist
boil	coin	poise	voice
coil	loin	joint	broil
foil	soil	point	spoil

LESSON XX.

hand	crab	back	cash
band	sash	hack	rash
trap	sack	pack	lash
flag	rack	tack	dash

LESSON XXI.

tent	chest	dress	mend
sent	nest	less	send
went	west	mess	lend
lent	vest	best	bend

LESSON XXII.

sing	shin	fish	skip
ship	thin	dish	slim
whip	spin	fist	swim
sick	grin	mist	wind

LESSON XXIII.

crop	frog	frock	stop
chop	flog	lock	song
shop	rock	dock	shot
prop	sock	blot	spot

LESSON XXIV.

brush	dust	lump	gush
bunch	gust	hump	rush
lunch	must	jump	shut
flush	rust	pump	shun

LESSON XXV.

blade	flake	drake	brace
shade	snake	grape	trace
crave	whale	grave	grate
shave	scale	brave	trade

LESSON XXVI.

beef	cheek	sheep	sleet
meet	cheer	sleep	sleek
free	fleet	steep	green
glee	greet	creep	seen

LESSON XXVII.

child	slice	snipe	shine
tribe	prize	stripe	twine
scribe	bride	light	tight
bribe	slide	fight	right

LESSON XXVIII.

stone	grove	shore	droll
stove	grope	snore	drone
smoke	globe	store	sloth
stroke	slope	stole	shone

LESSON XXIX.

spoon	troop	stool	shoot
broom	goose	school	stoop
gloom	moose	spool	proof
sloop	roost	tooth	brood

LESSON XXX.

ab′bot	gal′lon	fran′tic	sal′ad
ab sent	gal lop	car rot	sat in
can did	hab it	par rot	tal ent
at las	can dy	rab id	van ish

LESSON XXXI.

beg′gar	vel′vet	ken′nel	let′ter
cen tral	cred it	lem on	rel ic
cel lar	hel met	lev el	rel ish
ef fort	her ald	mel on	ten der

LESSON XXXII.

bit′ter	gib′bet	in′fant	sig′nal
din ner	fin ish	lin en	tim id
dip per	in dex	mim ic	tin sel
win ter	in let	pil grim	sil ver

LESSON XXXIII.

bon′net	com′mon	hov′el	sol′id
cob web	frol ic	mod est	gos sip
cof fin	gos pel	mor al	bod kin
col lar	hor rid	nov el	bot tom

LESSON XXXIV.

cus′tom	rub′bish	sum′mit	cut′ler
gus set	rus set	tun nel	cut ter
mus ket	rus tic	vul gar	fun ny
pump kin	sul len	but ler	gut ter

LESSON XXXV.

la′zy	pa′per	wa′ger	a′ble
na vy	ta per	bak er	fa ble
wa ver	wa fer	shak er	cra zy
ca per	la bel	la dy	sta ble

LESSON XXXVI.

he′ro	re′al	fre′quent	se′cret
e vil	be ing	que ry	e qual
e ven	de cent	ze ro	fe ver
de mon	re cent	tre mor	le ver

LESSON XXXVII.

di′al	ci′der	shin′y	cri′er
li ar	rid er	li on	bri er
ti dy	wid er	slim y	mi ser
ti ny	vi per	mir y	fi nal

LESSON XXXVIII.

cro′ny	rov′er	glo′ry	po′et
po ny	o ver	go ry	ho ly
bo ny	so ber	po lar	on ly
to ry	to per	so lar	to tal

LESSON XXXIX.

fu'ry	tu'tor	pu'pil	cu'pid
ju ry	hu mor	du el	flu id
du ty	tu mor	cu bic	pu ny
du ly	tu lip	mu sic	hu man

LESSON XL.

art'ist	art'ful	far'ther	var'nish
car go	ar bor	carv er	car mine
dar ling	arch er	hard er	char coal
far thing	chart er	gar ter	star ry

LESSON XLI.

mas'ter	raft'er	chant'ing	last'ly
pas tor	plas ter	blast ing	last ing
cast er	bas ket	bask ing	cast ing
aft er	cask et	pass ing	past ure

LESSON XLII.

al′ter	awn′ing	gaud′y	pau′per
aw ful	auc tion	haugh ty	daugh ter
au burn	au thor	awk ward	law ful
al tar	brawn y	sau cy	naugh ty

LESSON XLIII.

for′mal	froth′y	mor′tal	storm′y
for ty	for tress	cor set	fort une
for mer	tor pid	hor net	morn ing
scorn er	orb it	cor ner	horse man

LESSON XLIV.

dar′ing	par′ent	fair′ly	rare′ly
car ing	shar er	hair y	scarce ly
bare ly	swear er	pair ing	care ful
fair y	bear er	wear ing	there fore

LESSON XLV.

quar′rel	war′rant	squan′der	wal′let
quar ry	war ren	wam pum	wal nut
scal lop	wal low	watch er	wasp ish
wan der	swal low	watch ful	wan ton

LESSON XLVI.

mer′chant	per′son	her′mit	learn′er
cer tain	per fect	fer tile	earth y
ser vice	ver dict	fer vent	earn ing
ser pent	ver dant	mer cy	ster ling

LESSON XLVII.

thir′ty	sir′loin	dirt′y	jour′nal
thirst y	cir cus	wor ship	world ly
fir kin	firm ness	work man	burg lar
firm ly	stir rup	jour ney	fur long

LESSON XLVIII.

boil'er	nois'y	boy'ish	de coy'
toi let	point er	joy ful	en joy
join er	loi ter	roy al	an noy
coin er	broil er	oys ter	de stroy

LESSON XLIX.

found'ry	coun'ty	pout'ing	out'let
fount ain	boun ty	shout ing	out fit
mount ed	proud ly	spout ing	count ed
coun ter	sound ly	scout ing	mount ain

LESSON L.

cow'slip	tow'er	pow'der	town'ship
cow ard	pow er	chow der	fowl er
tow el	bow er	flow er	row dy
vow el	trow el	cow er	show er

HOME.

LESSON LI.

man	fa'ther	pa pa'
wom'an	moth er	mam ma
child	par ent	hus'band
boy	broth er	wife
girl	sis ter	ba'by

LESSON LII.

men	gen'tle man	son
wom'en	la dy	daugh'ter
chil dren	grand fa ther	grand moth er
in fant	un cle	grand child
cous in	aunt	serv ant

THE BODY.

LESSON LIII.

head	crown	hair
scalp	skull	brain
fore'head	ear	eye
eye lash	eye'lid	eye'brow
eye ball	pu pil	i ris

LESSON LIV.

sock'et	cheek	nose
nos tril	bridge	mouth
tooth	teeth	gum
tongue	spit'tle	whisk'ers
beard	chin	neck

LESSON LV.

throat	pal'ate	wind'pipe
bod'y	breast	back
bos om	waist	hip
trunk	spine	rib
chest	lungs	heart

LESSON LVI.

liv'er	stom'ach	shoul'der
arm	el bow	wrist
hand	palm	fin'ger
thumb	joint	knuck le
nail	leg	thigh

LESSON LVII.

knee	an'kle	shin
heel	toe	in'step
sole	skin	flesh
nerve	mus'cle	sin'ew
blood	bone	vein

CLOTHING.

LESSON LVIII.

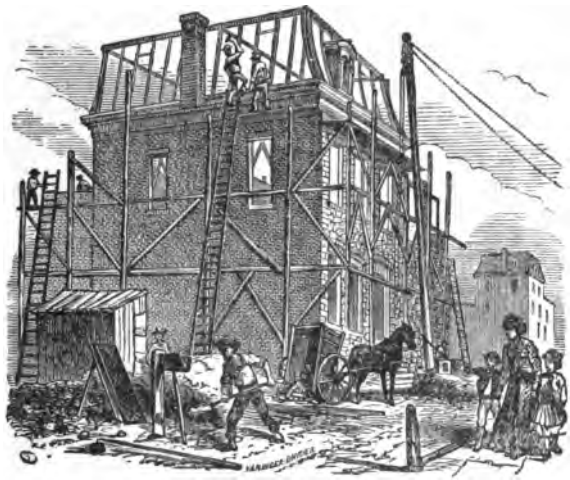
hat	cap	bon'net
col'lar	cra vat'	scarf
bow	cor'set	frock
gown	dress	wrap'per
pet'ti coat	skirt	sack

LESSON LIX.

sleeve	cuff	belt
pock'et	but'ton	rib'bon
fringe	a pron	cape
cloak	man tle	shawl
vest	jack et	coat

LESSON LX.

trou'sers	draw'ers	shirt
glove	mit ten	muff
sock	stock ing	leg'gin
hose	gar ter	shoe
boot	gai ter	slip'per



A HOUSE.

LESSON LXI.

brick	stone	wood
mor'tar	lime	wall
frame	beam	door
jamb	hinge	knob
key	lock	latch

LESSON LXII.

pan'el	sill	win'dow
pane	sash	shut ter
joist	floor	raft er
roof	eaves	chim ney
lath	plas'ter	ceil ing

ROOMS, FURNITURE, ETC.

LESSON LXIII.

cel'lar	cis'tern	heat'er
fur nace	fu el	coal
coke	char coal	ash'es
cin'ders	coal'-bin	gas'-me ter
saw'-horse	bar rel	shelf

LESSON LXIV.

stor'ing	stow'ing	sort'ing
saw ing	pil ing	pick ing
sift ing	split ting	hew ing
saw	maul	wedge
shov'el	axe	sieve

LESSON LXV.

hall	land'ing	steps
stair'case	rack	stand
mat	oil'cloth	dust'er
ring'ing	knock ing	en ter ing
scrap ing	wip ing	brush ing

LESSON LXVI.

par'lor	so'fa	car'pet
paint ing	pict ure	man tel
mir ror	pi a'no	stat ue
im age	vase	com pan y
chat ting	call'ing	vis it ing

LESSON LXVII.

sit'ting-room	lounge	cup'board
case	reg'is ter	chess
check'ers	cra dle	work
bas ket	thread	tape
nee dle	pin	scis'sors

LESSON LXVIII.

thim'ble	cush'ion	spool
ma chine'	cage	boot'-jack
rock'ing	sew'ing	cut ting
fit ting	stitch ing	mak ing
hem ming	braid ing	work ing

DINING-ROOM.

LESSON LXIX.

din'ing-room	side'board	clock
cloth	chi na	dish
plate	cup	sau'cer
knife	knives	fork
spoon	tum'bler	gob'let

LESSON LXX.

nap'kin	sal'ver	serv'er
wait er	tray	pitch er
cru et	bot'tle	plat ter
tu reen'	meal	lunch
break'fast	din'ner	sup'per

LESSON LXXI.

bread	but'ter	milk
cream	rolls	toast
cheese	eggs	steak
beef	mut'ton	pork
veal	ven i son	hash

LESSON LXXII.

tripe	game	fowl
fish	soup	gra'vy
sal'ad	jel'ly	pre serves'
pie	pud ding	cus'tard
waf'fle	muf fin	bis cuit

LESSON LXXIII.

des sert'	ice'-cream	cake
fruit	dressed	stuffed
fried	boiled	broiled
stewed	roast'ed	poached
scram'bled	bast ed	boned

LESSON LXXIV.

bit'ing	chew'ing	drink'ing
wait ing	serv ing	carv ing
pour ing	dish ing	rat tling
mov ing	lift ing	clear ing
cool ing	help ing	leav ing

KITCHEN, BEDROOM, FURNITURE, ETC.

LESSON LXXV.

kitch'en	stove	range
hearth	grate	ov'en
flue	pipe	damp er
shov'el	tongs	bel lows
grid dle	ket'tle	boil er

LESSON LXXVI.

stew'-pan	grid'i ron	broil'er
clos et	dress er	shelves
la dle	dip per	mill
pail	buck et	broom
dredg'er	sink	drain

LESSON LXXVII.

kin'dling	cook'ing	boil'ing
broil ing	bak ing	stew ing
fry ing	steam ing	can ning
peel ing	par ing	pick ling
toast ing	tast ing	brown ing

LESSON LXXVIII.

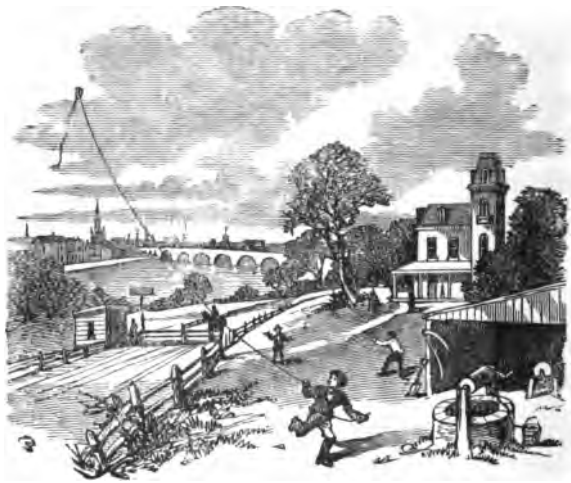
bed'room	bed'stead	mat'tress
bol ster	pil low	sheet
blank et	quilt	coun'ter pane
spread	bu'reau	toi let
brush	comb	whisk

LESSON LXXIX.

wash'-stand	ew'er	ba'sin
pitch er	tow el	crib
couch	ward robe	look'ing-glass
gas	lamp	can dle
shade	blinds	cur tain

LESSON LXXX.

sleep'ing	rest'ing	nap'ping
doz ing	loung ing	dream ing
wak ing	yawn ing	dress ing
la cing	ty ing	knot ting
brush ing	comb ing	ar rang'ing



CITY AND COUNTRY.

LESSON LXXXI.

gar′den	yard	fence
wood′-house	ar′bor	al′ley
well	curb	wind lass
chain	hy′drant	wa ter
spig′ot	flow ers	grass

LESSON LXXXII.

tool′-house	grind′stone	plane
ham mer	hatch et	au′ger
gim let	awl	screw
hoe	rake	pitch′fork
spade	shov′el	scythe

LESSON LXXXIII.

street	al'ley	lane
court	av en ue	road
path	turn pike	way
rail'road	plank'-road	by'-road
cross'-road	pave ment	side walk

LESSON LXXXIV.

foot'path	curb'-stone	gut'ter
cross ing	stile	bars
gate	toll'-gate	bridge
fer'ry	ford	riv'er
creek	stream	lake

LESSON LXXXV.

pond	mill'-race	com'mon
field	for est	tree'-box
run'ning	hid ing	leap ing
jump ing	skip ping	play ing
mar bles	kite	hop'-scotch

LESSON LXXXVI.

wick'et	crick'et	leap'-frog
skat ing	foot'-ball	base'-ball
fish ing	hunt ing	walk ing
ram bling	stroll ing	rid ing
driv ing	wan der ing	work ing

LESSON LXXXVII.

cit'y	coun'try	town
vil lage	bor ough	state
coun ty	town ship	dis'trict
par ish	ward	pre cinct
square	block	row

LESSON LXXXVIII.

post'-of fice	court'-house	mar'ket
shop	store	fac to ry
tav'ern	ho tel'	inn
sa loon'	drug'-store	work'shop
brew'er y	butch er	bak er

LESSON LXXXIX.

weav'er	tin'smith	black'smith
tail or	shoe'-mak er	cob bler
sad dler	stone'-cut ter	paint er
gla zier	hat ter	ma son
min er	en gi neer'	ma chin'ist

LESSON XC.

brick'-lay er	car'pen ter	print'er
jew el er	plas ter er	pot ter
lock'-smith	wheel wright	turn er
book'-bind er	book'-sell er	en grav'er
art ist	bro ker	bank'er

SCHOOL.

LESSON XCI.

school′-house	mas′ter	teach′er
prin ci pal	as sist′ant	di rect′or
school′-boy	schol′ar	pu′pil
learn er	stu dent	class mate
mon i tor	vis it or	jan i tor

LESSON XCII.

plat′form	desk	bench
black board	seat	slate
cray on	chalk	book
cop′y-book	pen	pa′per
ink stand	rul′er	pen cil

LESSON XCIII.

point'er	chart	card
satch el	map	globe
class'-room	class	les'son
play'-ground	play'mate	school mate
cab in et	li bra ry	clothes'-room

LESSON XCIV.

stud'y	ex'er cise	rec i ta'tion
fail ure	spell ing	read'ing
writ ing	dic ta'tion	a rith'me tic
no ta'tion	nu mer a'tion	ad di tion
sub trac tion	di vis'ion	min'u end

LESSON XCV.

sub'tra hend	mul'ti pli er	prod'uct
fac tor	di vi'sor	div i dend
quo tient	re main der	fig ure
u nit	frac'tion	sub tract'
mi nus	mul ti ply	di vide

LESSON XCVI.

sim ple	com'pound	num'ber
world	o cean	land
wa'ter	gulf	bay
strait	sound	cove
in'let	har'bor	sea

LESSON XCVII.

mount'ain	high'land	hill
low land	val ley	plain
vol ca'no	cra ter	sum'mit
slope	base	brook
spring	source	course

LESSON XCVIII.

draw'ing	re cit'ing	ci'pher ing
teach ing	ex plain ing	sing ing
talk ing	laugh'ing	whis per ing
prompt ing	march ing	as sem'bling
or der ing	o bey'ing	dis miss ing

LESSON XCIX.

con'duct	or'der	dis or'der
per fect	mer it	de mer it
im per'fect	marks	notes
ab'sent	pres'ent	ear'ly
tar dy	late	ex cuse'

LESSON C.

year	quar'ter	month
week	day	hour
min'ute	sec'ond	de gree'
mile	fur long	rod
yard	foot	inch

LESSON CI.

let'ter	syl'la ble	word
phrase	clause	sen'tence
noun	verb	ar ti cle
gram'mar	ad'verb	ad jec tive
com ma	sem i co lon	pe ri od

LESSON CII.

ea'gle	dol'lar	dime
cent	mill	note
check	or'der	draft
pound	shil ling	crown
pen'ny	pence	far'thing

LESSON CIII.

ses'sion	term	morn'ing
noon	aft er noon	re cess'
hol'i day	re port'	re ward
med al	prize	hon'or
pro mo'tion	dis tinc'tion	va ca'tion

STORE.

LESSON CIV.

cof'fee	flour	choc'o late
co coa	sug'ar	fa ri'na
meal	rice	hom'i ny
starch	sa'go	crack ers
eggs	lard	but ter

LESSON CV.

ham	tongue	sar'dines
tea	ba'con	sau sage
soap	can dles	her ring
ci'der	vin e gar	cod'-fish
pot ash	al um	mack er el

LESSON CVI.

cin'na mon	cloves	nut'meg
all spice	pep'per	mus tard
salt	so da	mo las'ses
hon'ey	syr up	match'es
oil	ker o sene	hom i ny

LESSON CVII.

in'di go	to bac'co	ci gars'
snuff	weight	meas'ure
bush'el	peck	half
gal lon	quart	pint
gill	pound	ounce

LESSON CVIII.

bar'rel	tub	ham'per
hogs head	kit	bas ket
cask	jar	pack age
bot'tle	box	bun dle
goods	cash	cred it

THE FARM.

LESSON CIX.

house	barn	sta'ble
man'ger	rack	stall
coop	barn'-yard	horse
ox'en	cows	sheep
pig	mule	team

LESSON CX.

wag'on	car'riage	dear'born
har row	plow	wheel bar row
drag	mow'er	reap er
thresh'er	mark er	roll er
seed er	plant er	sow er

LESSON CXI.

poul'try	fowls	hen
chick ens	geese	ducks
or chard	mead'ow	field
past ure	wood land	swamp
up land	marsh	woods

LESSON CXII.

earth	muck	ma nure'
marl	lime	bone'-dust
gua'no	ditch	drain
grove	for'est	fer'tile
bar'ren	ster ile	fal low

LESSON CXIII.

soil	fruit'ful	pro duc'tive
rich	loam y	sand'y
marsh'y	mud dy	spring y
rock y	ston y	mir y
moist	stiff	damp

LESSON CXIV.

chop'ping	clear'ing	log'ging
fen cing	plow ing	dig ging
spad ing	ditch ing	drain ing
haul ing	har row ing	roll ing
plant ing	sow ing	hoe ing

LESSON CXV.

weed′ing	till′ing	reap′ing
mow ing	bind ing	stack ing
shel ter ing	hous ing	husk ing
shell ing	thresh ing	har vest ing
milk ing	skim ming	churn ing

LESSON CXVI.

crops	wheat	rye
oats	bar′ley	corn
grain	buck wheat	grass
hay	clo ver	seed
fod′der	straw	chaff

LESSON CXVII.

po ta′to	to ma′to	tur′nip
on′ion	pars′nip	beet
cab bage	squash	leek
pump kin	mel′on	rad′ish
beans	peas	rhu barb

LESSON CXVIII.

let′tuce	cel′er y	spin′ach
spin age	pars ley	sage
fen nel	gar lic	car′rot
as par′a gus	egg′-plant	horse′-rad ish
mus′tard	cu cum ber	car a way

LESSON CXIX.

ber′ries	cur′rant	goose′ber ry
black ber ry	rasp ber ry	straw ber ry
dew′-ber ry	cran ber ry	mul ber ry
fruits	ap ple	peach
pear	plum	a′pri cot

LESSON CXX.

nec′ta rine	quince	cher′ry
or ange	lem′on	ol ive
grape	cit ron	fig
nut	date	prune
sweet	sour	tart

LESSON CXXI.

ac′id	ac′rid	pun′gent
in sip′id	lus cious	de li′cious
sa′vor y	jui cy	taste′less
mel low	ripe	un ripe′
hard	soft	de cayed

LESSON CXXII.

stalk	ear	husk
shell	hull	pod
seed	pulp	meat
juice	core	cell
skin	rind	peel

CHURCH.

LESSON CXXIII.

chap′el	chan′cel	gal′ler y
church	meet ing	tem ple
pul′pit	al tar	ves try
rail ing	pew	or gan
or gan ist	lead′er	sing er

LESSON CXXIV.

min′is ter	priest	cler′gy man
preach er	bish′op	dea con
pas tor	cu rate	vic ar
eld er	trust ee′	sex ton
flock	peo′ple	con gre ga′tion

LESSON CXXV.

bi'ble	tes'ta ment	prayer'-book
hymn'-book	gos pel	ser mon
ser vice	chap ter	text
mass	prayer	psalm
chant	an'them	ben e dic'tion

LESSON CXXVI.

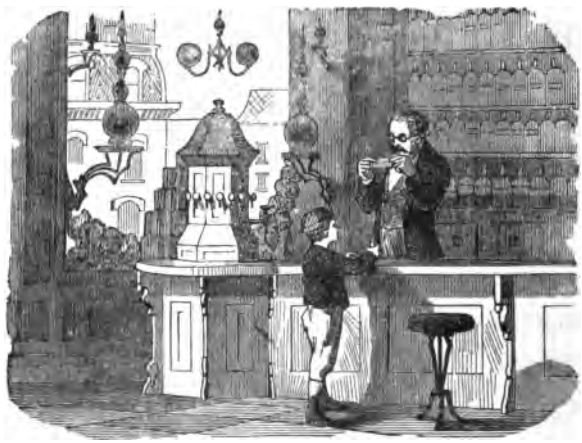
Christ'ian	Jew'ish	Cath'o lic
Prot est ant	re lig'ion	hea then
pa gan	be liev er	faith ful
pi e ty	ho'ly	sa cred
de vout'	hum ble	pen i tent

LESSON CXXVII.

saint	sin'ner	con'vert
ren'e gade	proud	low ly
rev er ent	im'pi ous	con trite
faith	hope	char i ty
love	peace	pu ri ty

LESSON CXXVIII.

doubt	fear	truth
grace	virt'ue	vice
fol'ly	joy	grief
mer cy	sal va'tion	heav'en
sac ra ment	bap'tism	con fes'sion



MEDICINE, SURGERY, ETC.

LESSON CXXIX.

doc′tor	nurse	sur′geon
den tist	drug′gist	hos pi tal
med i cine	phys ic	drugs
op er a′tion	rem e dy	pre scrip′tion
ex tract′	bleed	ex am ine

LESSON CXXX.

mixt′ure	so lu′tion	in fu′sion
plas ter	poul′tice	blis′ter
pow der	pill	cam phor
par e gor′ic	o′pi um	ton ic
ip′e cac	al oes	ar ni ca

LESSON CXXXI.

cal'o mel	jal'ap	al'um
bo rax	salts	poi son
man na	ar'se nic	qui nine
mag ne'si a	rhu barb	bal sam
sen'na	sweet'-oil	cas tor-oil

LESSON CXXXII.

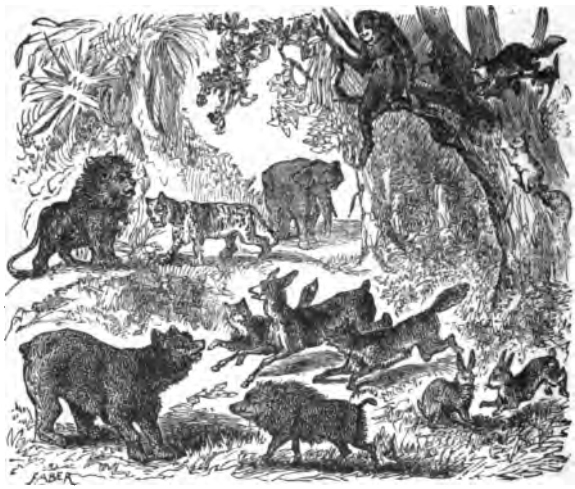
a'gue	fe'ver	can'cer
pal sy	croup	con sump'tion
ca tarrh	gout	tu'mor
spasms	col'ic	mea sles
mumps	small'-pox	scur vy

LESSON CXXXIII.

chol'er a	drop'sy	head'ache
corns	pim ples	warts
bun'yon	boil	car'bun cle
pa tient	dis ease'	sick ness
weak ness	purg'ing	dy ing

LESSON CXXXIV.

tooth'-ache	cav'i ty	fill'ing
fract ure	splint	band age
sling	truss	vi al
lan'cet	bot'tle	sponge
pes tle	mor tar	fun'nel



ANIMALS.

LESSON CXXXV.

mon′key	ape	bab oon′
go ril′la	cat	li′on
leop′ard	ti′ger	pan ther
hy e′na	dog	wolf
lynx	fox	wea′sel

LESSON CXXXVI.

badg′er	mar′ten	bear
rac coon′	deer	fawn
an′te lope	hind	buck
buf fa lo	bull	cow
goat	sheep	lamb

LESSON CXXXVII.

ram	ze'bra	don'key
horse	mule	el e phant
hog	swine	boar
bea'ver	hare	rab'bit
rat	mouse	squir rel

LESSON CXXXVIII.

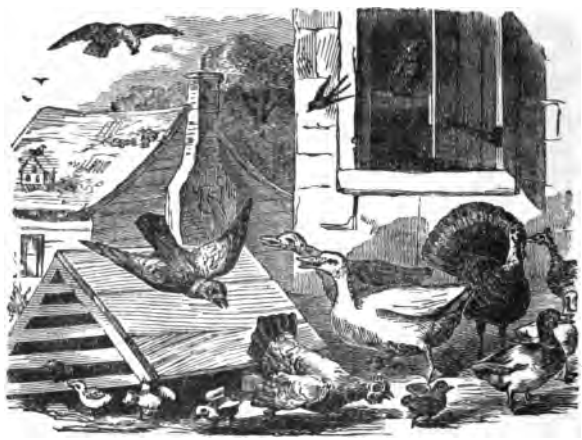
bur'row	build	climb
car ry	tear	nib'ble
crouch	slink	skulk
gnaw	leap	spring
jump	hop	sneak

LESSON CXXXIX.

do mes'tic	wild	tame
tam'a ble	fierce	gen'tle
fe ro'cious	mild	slow
dan'ger ous	wi'ly	swift
sa ga'cious	cun ning	harm'less

LESSON CXL.

roar	scream	howl
bark	bray	low
bel'low	bleat	neigh (nay)
whin ny	squeal	squeak
mew	whine	grunt



BIRDS.

LESSON CXLI.

con′dor	vult′ure	buz′zard
ea gle	fal con (faw′)	os prey
kite	hawk	owl
swal′low	swift	mar′tin
king fish er	creep′er	wag tail

LESSON CXLII.

wren	night′in gale	rob′in
spar′row	tit mouse	thrush
o ri ole	black bird	mock′ing-bird
crow	jay	ra ven
rook	jack′daw	mag pie

LESSON CXLIII.

haw'finch	chaf'finch	gold'finch
lin net	sky'-lark	bull finch
ca na'ry	ma caw'	par rot
wood'peck er	cuck'oo	pig eon
dove	pea cock	pheas ant

LESSON CXLIV.

tur'key	chick'en	par'tridge
quail	grouse	os trich
plov'er	crane	stork
her on	spoon'bill	i'bis
cur lew	snipe	rail

LESSON CXLV.

fla min'go	goose	swan
duck	pen'guin	al'ba tross
gull	pel i can	cor mo rant
bill	beak	wat tles
wings	tail	claws
toes	spurs	plum'age

LESSON CXLVI.

feath'ers	quills	down
crest	ruff	tuft
giz'zard	crop	craw
eggs	nest	roost
flight	pas'sage	mi gra'tion

LESSON CXLVII.

noise	cry	whis'tle
scream	screech	hoot
coo	hiss	cluck
cack'le	quack	crow
caw	twit'ter	croak

LESSON CXLVIII.

whir	chirp	gob'ble
sing	war'ble	perch
sail	fly	glide
chase	float	soar
skim	flit	flap

LESSON CXLIX.

dart	hov'er	spread
hop	flut ter	poise
plume	dip	plunge
cling	build	pair
lay	hatch	breed

LESSON CL.

climb	scratch	wade
swim	brood	young
cov'ey	flock	smooth
gloss y	grace'ful	beau'ti ful
na tive	do mes'tic	for eign

REPTILES, FISHES, ETC.

LESSON CLI.

tor′toise	ter′ra pin	tur′tle
croc o dile	al′li ga tor	liz ard
drag on	vi per	rat tle snake
ad der	black′-snake	toad
frog	newt	tad′pole

LESSON CLII.

stur′geon	shark	perch
bass	mul′let	mack′er el
sole	floun der	cod
eel	shad	her′ring
pike	trout	salm on (sam′)

LESSON CLIII.

conch	snail	slug
scal'lop	oys'ter	mus'sel
clam	in sect	bee tle
crick'et	lo cust	but ter fly
moth	fly	gnat

LESSON CLIV.

flea	hor'net	wasp
bee	gad fly	mos qui'to
crab	lob ster	shrimp
bar'na cle	spi der	cen'ti ped
cat er pil lar	lar va	grub

LESSON CLV.

crawl	creep	wrig'gle
bite	sting	tease
fangs	ven'om	rat'tle
fins	gills	shell
silk	wax	hon'ey

LESSON CLVI.

web	ring	coil
skip	leap	twine
twist	writhe	buzz
weave	spin	shine
pearl	oil	poi'son

TREES AND FLOWERS.

LESSON CLVII.

oak	ash	elm
fir	yew	beech
birch	larch	pine
spruce	ce'dar	hol'ly
ha'zel	lo cust	wil low

LESSON CLVIII.

wal'nut	chest'nut	pop'lar
ma ple	hem lock	cy press
lau rel	hick o ry	ju ni per
eb o ny	but ton-wood	palm
lin den	dog wood	box'wood

LESSON CLIX.

cro'cus	snow'drop	lil'y
vi o let	rose	pink
mar i gold	dai'sy	pan'sy
ver be'na	pop py	phlox
ge ra ni um	lark spur	prim'rose

LESSON CLX.

daf'fo dil	i'vy	car na'tion
tu lip	cow slip	but'ter cup
blue'-bell	cac tus	li lac
clem a tis	o le an'der	hon ey suck le
wood bine	grape'-vine	lav en der

LESSON CLXI.

root	root'let	fi'ber
bulb	stem	trunk
branch	bough	limb
bark	pith	thorn
run'ner	ten'dril	bud

LESSON CLXII.

scale	leaf	stalk
blade	flow'er	clus'ter
pet'al	se pal	sta men
pis til	leaves	stig ma
pol len	an'ther	ber ry

METALS, MINERALS AND COLORS.

LESSON CLXIII.

gold	sil′ver	i′ron
cop′per	lead	tin
zinc	nick′el	brass
dia′mond	em er ald	ru′by
jas per	pearl	to paz

LESSON CLXIV.

gar′net	ag′ate	quartz
crys tal	o nyx	flint
gran ite	lime stone	sand′stone
mar ble	slate	coal
rock	cor′al	fos′sil

LESSON CLXV.

hues	tints	shades
yel′low	lem′on	ca na′ry
red	car mine	scar′let
blue	in di go	Prus sian blue
or′ange	salm on	buff

LESSON CLXVI.

green	em′er ald	pea′-green
pur′ple	vi o let	li lac
black	brown	gray
ol′ive	lav′en der	cream
pink	straw	cit′rine

MILITARY TERMS.

LESSON CLXVII.

gen'er al	ma'jor	colo'nel (kur'l
cap tain	lieu ten'ant	ser geant
cor po ral	sur'geon	chap lain
or der ly	of fi cer	sut ler
sol dier	troop er	pri vate

LESSON CLXVIII.

reg'u lars	vol un teers'	mi li'tia
re cruit'	con'script	sub'sti tute
sen'try	pick et	sen ti nel
pa trol'	guard	guide
scout	hos'tage	spy

LESSON CLXIX.

ar'my	corps (kore)	di vis'ion
bri gade'	reg'i ment	bat tal ion
com'pan y	pla toon'	squad
bat tle	at tack	fight
en e my	de feat	re pulse'

LESSON CLXX.

vic'to ry	pan'ic	flight
earth'-work	fort	re doubt'
cas tle	wall	ram'part
gar ri son	as sault'	sur ren'der
bat ter y	ar til'ler y	can'non

LESSON CLXXI.

mor′tar	bomb	shell
ball	pow′der	shot
rock′et	ri fle	gun
mus ket	pis tol	sword
bay o net	sa bre	pike

LESSON CLXXII.

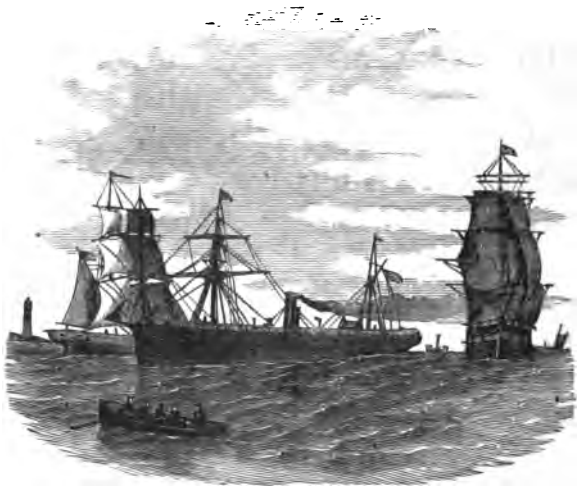
camp	bar′racks	quar′ters
tents	guard′-house	hos pi tal
ra′tion	for age	u ni form
belt	can teen′	knap sack
wa′ges	boun′ty	pen sion

LESSON CLXXIII.

tac′tics	man′u al	drill
march	pa rade′	mus′ter
re view′	roll′-call	fur lough
de sert	dis charge′	dis band′
mu′ti ny	pil′lage	plun′der

LESSON CLXXIV.

na′vy	fleet	squad′ron
steam er	mon′i tor	gun′-boat
ad mi ral	cap tain	mas ter
com mand′er	en gi neer′	gun ner
purs′er	ma rine′	sail or



SHIPS, STEAMERS, ETC.

LESSON CLXXV.

ves'sel	steam'-ship	frig'ate
bark	sloop	brig
schoon'er	cut'ter	smack
gal ley	barge	yacht (yot)
life'-boat	long'-boat	light'er

LESSON CLXXVI.

hull	keel	deck
bul'wark	cap'stan	anch'or
ca ble	chains	fore cas tle
hold	cab'in	hatch way
rud'der	helm	til ler

LESSON CLXXVII.

wind'lass	haws'er	port'-hole
masts	bow sprit	boom
spars	stays	sails
yards	rat'lines	taff'rail
hal'yard	shrouds	pen nant

LESSON CLXXVIII.

cap'tain	crew	sail'ors
mate	boat'swain	car pen ter
pi'lot	helms man	lands man
sea man	mar i ner	nav i ga tor
com pass	quad rant	bin na cle

LESSON CLXXIX.

voy'age	wind'ward	lee'ward
log'-book	chart	lat i tude
lon gi tude	cur'rent	sound ing
light'-house	lee'-shore	wreck
car go	freight	bal'last

LESSON CLXXX.

en'gine	boil'er	bra'ces
flues	pump	steam'-gauge
safe'ty-valve	cyl'in der	crank
beam	shaft	pro pel'ler
en gi neer'	fire'man	coal'-pass er

NAMES OF MEN.

LESSON CLXXXI.

Ad'am	An'drew	Al'bert
Charles	Ca leb	Cal vin
Dan'iel	Da vid	Ez ra
Ed win	Ed gar	Er nest
Ed mund	Fe lix	George

LESSON CLXXXII.

Hor'ace	Hen'ry	Hu'bert
I saac	James	John
Jo seph	Jo'el	Jes'se
Ja cob	Lew is	Lou is
Lu ther	Mark	Mar tin

LESSON CLXXXIII.

Mat'thew	Mau'rice	Mo'ses
No ah	Na than	Pe ter
Paul	Pat rick	Phil ip
Ralph	Rich ard	Rob ert
Rog'er	Si las	Si mon

LESSON CLXXXIV.

Ste'phen	Sam'u el	Sim'e on
Syl ves'ter	Thom as	The o dore
Val'en tine	Will iam	Vin cent
Au gus'tus	An tho ny	Fred er ic
Ar'thur	Ju li an	Or lan'do

NAMES OF WOMEN.

LESSON CLXXXV.

Ag'nes	Al'ice	An'na
A my	Blanche	Ber tha
Brid get	Clar'a	Char lotte
Do ra	E dith	Em ma
Ev e lyn	Fan ny	Flo ra

LESSON CLXXXVI.

Flor'ence	Fran'ces	Ger'trude
Han nah	Hel en	Jane
Ju li a	Ju li et	Lau'ra
Lo is	Lu cy	Ma ry
Ma bel	Mar tha	Nan cy

LESSON CLXXXVII.

No'ra	Ol'ive	Phe'be
Ro sa	Ra chel	Ruth
Pau line'	Sa rah	Su'san
E li'za	Em i ly	Lyd i a
A me li a	A man'da	Ma ri'a

LESSON CLXXXVIII.

Car'o line	Har'ri et	Cath'a rine
Cor de'li a	Dor o thy	E liz'a beth
Ho no ra	Lou i'sa	Mar'ga ret
Ma til da	Mir'i am	El ea nor
Re bec ca	So phi'a	Vir gin'i a

NAMES OF DEITY, ETC.

LESSON CLXXXIX.

Je ho'vah	Cre a'tor	De'i ty
Al might y	Fa'ther	Lord
Re deem er	Sav iour	Son
Mes si ah	Christ	Je'sus
Script'ures	Tes'ta ment	Bi ble

LESSON CXC.

Jan'u a ry	Feb'ru a ry	March
A pril	May	June
Ju ly'	Au'gust	Sep tem'ber
Oc to'ber	No vem'ber	De cem ber
Christ'mas	Eas'ter	Whit'sun day

LESSON CXCI.

Mon'day	Tues'day	Wednes'day
Thurs day	Fri day	Sat ur day
Sab bath	Sun day	First day
Sec ond day	Third day	Fourth day
Fifth day	Sixth day	Sev enth day

LESSON CXCII.

Sun	Mer'cu ry	Ve'nus
Earth	Moon	Mars
Ju'pi ter	Sat'urn	U ra nus
Nept une	Sir i us	O ri'on

TEST WORDS.

LESSON CXCIII.

loose	lose	seize
niece	sieve	know
alum	atom	ballad
tenant	laugh	dreamt
garret	anvil	fagot

LESSON CXCIV.

gossip	hazard	linnet
forty	error	haggard
ferret	gambol	mamma
mica	offal	galley
pallet	lizard	balance

LESSON CXCV.

marvel	pallid	traffic
absence	torpor	pivot
puppet	oxide	essence
rancid	sandal	palate
apron	eighth	parole

LESSON CXCVI.

pigeon	having	receipt
penance	women	tactics
thirty	weather	tendon
callous	biscuit	soldier
crystal	nephew	filial

LESSON CXCVII.

syrup	bureau	interest
tureen	scissors	neighbor
scourge	scallop	turban
though	leisure	business

LESSON CXCVIII.

separate	behavior	pavilion
tyranny	handkerchief	medallion
symptom	millinery	veracity
fallible	chameleon	battalion

LESSON CXCIX.

colonel	cemetery	necessary
mosquito	quotient	fortieth
twelfth	island	physician
leopard	almond	knowledge

LESSON CC.

grammar	supersede	nutritious
tortoise	counterfeit	sergeant
harangue	liniment	mackerel
palatable	barricade	parallel

THE END.

TABLE CARD.

TROY WEIGHT.

24 grains . .	= 1 pennyw't.
20 pennyweights	= 1 ounce.
12 ounces . .	= 1 pound.

AVOIRDUPOIS WEIGHT.

16 drams . .	= 1 ounce.
16 ounces . .	= 1 pound.
25 pounds . .	= 1 quarter.
4 quarters, or 100 lbs. .	= 1 hundred-w't.
20 hundred-w't.	= 1 ton.

In several States 112 lbs. are allowed for a hundred-w't. and 28 lbs. for a quarter.

LONG MEASURE.

12 inches . .	= 1 foot.
3 feet . . .	= 1 yard.
$5\frac{1}{2}$ yards . .	= 1 rod.
40 rods . .	= 1 furlong.
8 furlongs .	= 1 mile.
60 geographic, or $69\frac{1}{6}$ statute miles	= 1 degree.
360 degrees	= 1 circle of the earth.
6 feet . . .	= 1 fathom.
$7\frac{92}{100}$ inches .	= 1 link.
4 rods, or 100 links	= 1 chain.
$1\frac{15}{100}$ miles .	= 1 knot.

SQUARE MEASURE.

144 sq. inches	= 1 square foot.
9 square feet	= 1 square yard.

CUBIC MEASURE.

1728 cu. inches	= 1 cubic foot.
27 cubic feet	= 1 cubic yard.
40 feet of round, or 50 feet of hewn timber	= 1 ton.
16 cubic feet	= 1 cord foot.
128 cubic feet	= 1 cord of wood.

FEDERAL MONEY.

10 mills . .	= 1 cent.
10 cents . .	= 1 dime.
10 dimes . .	= 1 dollar.
10 dollars . .	= 1 eagle.

STERLING MONEY.

4 farthings .	= 1 penny.
12 pence .	= 1 shilling.
20 shillings . $4.84 (gold) .	= 1 pound.
18 cents 6 mills	= 1 franc.

CIRCULAR MEASURE.

60 seconds .	= 1 minute.
60 minutes .	= 1 degree.
30 degrees .	= 1 sign.
12 signs . .	= 1 circle.

TIME.

60 seconds .	= 1 minute.
60 minutes .	= 1 hour.
24 hours . .	= 1 day.
7 days . . .	= 1 week.
4 weeks . .	= 1 lunar month.
12 calendar, or 13 lunar months and 1 day, or 365 days,	= 1 civil year.
366 days . .	= 1 leap year.
100 years . .	= 1 century.

WINE MEASURE.

4 gills . . .	= 1 pint.
2 pints . . .	= 1 quart.
4 quarts . .	= 1 gallon.
$31\frac{1}{2}$ gallons .	= 1 barrel.
63 gallons .	= 1 hogshead.

DRY MEASURE.

2 pints . . .	= 1 quart.
8 quarts . .	= 1 peck.
4 pecks . .	= 1 bushel.
8 bushels . .	= 1 quarter.
32 bushels . .	= 1 chaldron.

MISCELLANEOUS.

12 units . .	= 1 dozen.
12 dozen . .	= 1 gross.
20 units . .	= 1 score.
56 pounds . .	= 1 bu. of corn.
100 pounds .	= 1 quintal.
196 pounds .	= 1 barrel flour.
200 pounds .	= 1 barrel pork.
24 sheets of paper	= 1 quire.
20 quires of paper	= 1 ream.

MULTIPLICATION TABLE.

Twice		3 times		4 times		5 times		6 times		7 times		8 times		9 times		10 times		11 times		12 times	
1 are	2	1 are	3	1 are	4	1 are	5	1 are	6	1 are	7	1 are	8	1 are	9	1 are	10	1 are	11	1 are	12
2	4	2	6	2	8	2	10	2	12	2	14	2	16	2	18	2	20	2	22	2	24
3	6	3	9	3	12	3	15	3	18	3	21	3	24	3	27	3	30	3	33	3	36
4	8	4	12	4	16	4	20	4	24	4	28	4	32	4	36	4	40	4	44	4	48
5	10	5	15	5	20	5	25	5	30	5	35	5	40	5	45	5	50	5	55	5	60
6	12	6	18	6	24	6	30	6	36	6	42	6	48	6	54	6	60	6	66	6	72
7	14	7	21	7	28	7	35	7	42	7	49	7	56	7	63	7	70	7	77	7	84
8	16	8	24	8	32	8	40	8	48	8	56	8	64	8	72	8	80	8	88	8	96
9	18	9	27	9	36	9	45	9	54	9	63	9	72	9	81	9	90	9	99	9	108
10	20	10	30	10	40	10	50	10	60	10	70	10	80	10	90	10	100	10	110	10	120
11	22	11	33	11	44	11	55	11	66	11	77	11	88	11	99	11	110	11	121	11	132
12	24	12	36	12	48	12	60	12	72	12	84	12	96	12	108	12	120	12	132	12	144
13	26	13	39	13	52	13	65	13	78	13	91	13	104	13	117	13	130	13	143	13	156
14	28	14	42	14	56	14	70	14	84	14	98	14	112	14	126	14	140	14	154	14	168
15	30	15	45	15	60	15	75	15	90	15	105	15	120	15	135	15	150	15	165	15	180
16	32	16	48	16	64	16	80	16	96	16	112	16	128	16	144	16	160	16	176	16	192
17	34	17	51	17	68	17	85	17	102	17	119	17	136	17	153	17	170	17	187	17	204
18	36	18	54	18	72	18	90	18	108	18	126	18	144	18	162	18	180	18	198	18	216
19	38	19	57	19	76	19	95	19	114	19	133	19	152	19	171	19	190	19	209	19	228
20	40	20	60	20	80	20	100	20	120	20	140	20	160	20	180	20	200	20	220	20	240
21	42	21	63	21	84	21	105	21	126	21	147	21	168	21	189	21	210	21	231	21	252
22	44	22	66	22	88	22	110	22	132	22	154	22	176	22	198	22	220	22	242	22	254
23	46	23	69	23	92	23	115	23	138	23	161	23	184	23	207	23	230	23	253	23	276
24	48	24	72	24	96	24	120	24	144	24	168	24	192	24	216	24	240	24	264	24	288

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